ABSTRACT OF THE DISCLOSURE

A storage system effectively manages the total capacity of hard disk drives to store block-basis data and file-basis data with a shared storage medium and a managing means for managing all the storage areas in the storage medium. When block data and address are input through a fiber channel port, a block data input/output means converts its data format to a data format that is internally applied by the storage system. When file data and address are input through an Ethernet port, a file system converts its data format to the data format internally applied by the storage system, such as the block data format. The file system derives the address of a logical volume from the received address information and translates file data to block data. The managing means derives the address of a logical volume to which to write block data from the address information delivered from the block data input/output means. The managing means translates this address or the address passed from the file system to a physical address and writes data to or read data from a hard disk drive with the physical address.